

Listing and Amendments to the Claims

This listing of claims will replace the claims that were published in the PCT Application:

1. (currently amended) A system ~~(23)~~ that maintains synchronization between a video signal ~~(29)~~ and an audio signal ~~(31)~~ that are processed using clocks that are locked, the system ~~(23)~~ comprising:
 - a component ~~(34)~~ that determines an initial audio input buffer level;
 - a component ~~(34)~~ that determines an amount of drift in the initial audio input buffer level and adjusts the clocks to maintain the initial audio input buffer level if the amount of drift reaches a first predetermined threshold; and
 - a component ~~(32)~~ that measures a displacement of a video signal ~~(29)~~ associated with the audio signal ~~(31)~~ in response to the adjusting of the clocks and operates to negate the measured displacement of the video signal ~~(29)~~ if the measured displacement reaches a second predetermined threshold.
2. (currently amended) The system ~~(23)~~ set forth in claim 1, wherein the initial audio input buffer level is stored in a memory.
3. (currently amended) The system ~~(23)~~ set forth in claim 1, wherein a clock recovery control is disabled if the amount of drift reaches the first predetermined threshold.
4. (currently amended) The system ~~(23)~~ set forth in claim 1, wherein the audio signal ~~(31)~~ and the video signal ~~(29)~~ comprise a Motion Picture Experts Group (MPEG) signal.

5. (currently amended) The system ~~(23)~~ set forth in claim 1, wherein the component ~~(32)~~ that measures the displacement of the video signal ~~(29)~~ associated with the audio signal ~~(31)~~ operates to negate the measured displacement of the video signal ~~(29)~~ by re-initializing the measurement of the initial audio input buffer level.
6. (currently amended) The system ~~(23)~~ set forth in claim 1, wherein the component ~~(32)~~ that measures the displacement of the video signal ~~(29)~~ associated with the audio signal ~~(31)~~ operates to negate the measured displacement of the video signal ~~(29)~~ by dropping a frame of the video signal.
7. (currently amended) The system ~~(23)~~ set forth in claim 1, wherein the first predetermined threshold is about +/- 10 ms.
8. (currently amended) The system ~~(23)~~ set forth in claim 1, wherein the second predetermined threshold is about +/- 25 ms.
9. (currently amended) The system ~~(23)~~ set forth in claim 1, wherein the system ~~(23)~~ comprises a portion of a television set.
10. (currently amended) The system ~~(23)~~ set forth in claim 9, wherein the television set comprises a High Definition Television (HDTV) set.

11. (currently amended) A system ~~(23)~~ that maintains synchronization between a video signal ~~(29)~~ and an audio signal ~~(31)~~ that are processed using clocks that are locked, the system ~~(23)~~ comprising:

means ~~(34)~~ for determining an initial audio input buffer level;

means ~~(34)~~ for determining an amount of drift in the initial audio input buffer level;

means ~~(34)~~ for adjusting the clocks to maintain the initial audio input buffer level if the amount of drift reaches a first predetermined threshold;

means ~~(32)~~ for measuring a displacement of a video signal ~~(29)~~ associated with the audio signal ~~(31)~~ in response to the adjusting of the clocks; and

means ~~(32)~~ for negating the measured displacement of the video signal ~~(29)~~ if the measured displacement reaches a second predetermined threshold.

12. (currently amended) The system ~~(23)~~ set forth in claim 11, wherein the audio signal ~~(31)~~ and the video signal ~~(29)~~ comprise a Motion Picture Experts Group (MPEG) signal.

13. (currently amended) The system ~~(23)~~ set forth in claim 11, wherein the means ~~(32)~~ for measuring the displacement of the video signal ~~(29)~~ associated with the audio signal ~~(31)~~ operates to negate the measured displacement of the video signal ~~(29)~~ by re-initializing the measurement of the initial audio input buffer level.

14. (currently amended) The system ~~(23)~~ set forth in claim 11, wherein the means ~~(32)~~ for measuring the displacement of the video signal ~~(29)~~ associated with the audio signal ~~(31)~~ operates to negate the measured displacement of the video signal ~~(29)~~ by dropping a frame of the video signal ~~(29)~~.

15. (currently amended) A method ~~(200)~~ for maintaining synchronization between a video signal ~~(29)~~ and an audio signal ~~(31)~~ that are processed using clocks that are locked, the method ~~(200)~~ comprising:
- determining ~~(204)~~ an initial audio input buffer level;
 - determining ~~(206)~~ an amount of drift in the initial audio input buffer level;
 - adjusting ~~(210)~~ the clocks to maintain the initial audio input buffer level if the amount of drift reaches a first predetermined threshold;
 - measuring ~~(212)~~ a displacement of a video signal ~~(29)~~ associated with the audio signal ~~(31)~~ in response to the adjusting of the clocks; and
 - negating ~~(216)~~ the measured displacement of the video signal ~~(29)~~ if the measured displacement reaches a second predetermined threshold.
16. (currently amended) The method ~~(200)~~ set forth in claim 15, comprising storing the initial audio input buffer level in a memory.
17. (currently amended) The method ~~(200)~~ set forth in claim 15, comprising disabling a clock recovery control if the amount of drift reaches the first predetermined threshold.
18. (currently amended) The method ~~(200)~~ set forth in claim 15, wherein the act of negating ~~(216)~~ the measured displacement of the video signal comprises re-initializing the measurement of the initial audio input buffer level.
19. (currently amended) The method ~~(200)~~ set forth in claim 15, wherein the act of negating ~~(216)~~ the measured displacement of the video signal comprises dropping a frame of the video signal.
20. (currently amended) The method ~~(200)~~ set forth in claim 15, wherein the recited acts are performed in the recited order.